

YVAC-3

Perfluoropolyether based grease, for use under high vacuum conditions

Product Overview

With a rating of 5×10^{-13} Torr, ROCOL® YVAC-3 has unsurpassed performance in vacuum applications.

ROCOL YVAC-3 is particularly designed for lubricating slides, bearings, pins, bushes, gears and valves in high vacuum applications. It can also be used for aggressive chemical environments due to its inert formulation.

ROCOL YVAC-3 is an extreme high load lubricant, for a wide range of aggressive environments, which will not have a detrimental effect on rubbers, plastics or metals.

Features and Benefits

- ROCOL YVAC-3 has an excellent wide temperature range from -20°C to $+200^{\circ}\text{C}$.
- ROCOL YVAC-3 has an extremely low vapour pressure to prevent contamination when being used in high vacuum applications.
- The product has an exceptionally long service life providing excellent cost effectiveness from extended lubrication intervals, reduced downtime and reduced labour costs.
- ROCOL YVAC-3 has outstanding extreme pressure (EP) performance with a weld load of 620 kg.
- This product is primarily designed for high vacuum applications up to 5×10^{-13} Torr although it is also ideal for aggressive chemical environments.
- ROCOL YVAC-3 is non-toxic and it has an extremely high oxidation and thermal resistance.

Directions for Storage and Use

- ROCOL YVAC-3 can be applied manually or by other methods suitable for dispensing NLGI No. 3 greases.
- ROCOL YVAC-3 is compatible with other perfluoropolyether greases. However, for best results it is recommended that the bearings should be purged of the previous lubricant prior to application.
- If the previous lubricant used was not perfluoropolyether based, it is important to ensure that the bearings are fully cleaned with a suitable solvent, for example ROCOL INDUSTRIAL CLEANER Rapid Dry Spray, before charging with ROCOL YVAC-3.
- The storage temperature should be controlled between $+1^{\circ}\text{C}$ and $+40^{\circ}\text{C}$
- Shelf life is 5 years from date of manufacture.

Typical Applications

ROCOL YVAC-3 is designed for use in high vacuum pumps, however, it can be used in every major industry such as chemical, electronic, mechanical, military and aerospace.

Pack Sizes

Pack Size	Part Code
100g	39011

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Property	Test Method	Result
Appearance	Visual	Soft white grease
NLGI Number	IP 50 (ASTM D217)	3
Base Type (Made with Fomblin® PFPE)	N/A	Perfluoropolyether
Base Fluid Viscosity at 20°C	IP 71	1200 – 1600cSt
Base Fluid Viscosity at 40°C	IP 71	410cSt
Thickener	N/A	PTFE
Temperature Range	N/A	-20°C to +200°C
4-Ball weld Load	IP 239 (ASTM D2596)	620kg
Specific Gravity	N/A	1.92
Vapour pressure at +20°C	N/A	5 x 10 ⁻¹³ Torr
Vapour pressure at +100°C	N/A	5 x 10 ⁻⁸ Torr
B.A.M. Oxygen Impact Test – Limit Pressure	N/A	80 bar at 60°C
Solvent Resistance	N/A	Most solvents
Chemical Resistance	N/A	Most acids
Soluble in:	N/A	Fluorinated solvents

Values quoted above are typical and do not constitute a specification.

Safety Data Sheets

Safety data sheets are available for download from our website www.rocol.com or may be obtained from your usual ROCOL contact.

The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

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